

IN THE CLAIMS:

Please amend currently pending Claims 1, 3, 5-6 and 8-9 and add new Claims 10-13.

1 1. (Currently Amended) A mounting assembly for a rotational position sensor for
2 mounting on a first member and sensing a rotational position of a second member
3 supported on the first member for rotation relative thereto, comprising:
4 a transfer shaft having a first end cooperatively engageable with a rotatable sensor
5 element of the sensor for rotating the sensor element when the transfer shaft is rotated,
6 and a second end cooperatively engageable with and non-rigidly attached to, the second
7 member for rotation of the transfer shaft therewith; and
8 a housing for supporting and holding the sensor and the transfer shaft with the
9 first end of the shaft in engagement with the rotatable sensor element and the second end
10 positioned for engaging the rotatable second member, the housing being mountable in a
11 fixed position and orientation on the first member such that the second end of the transfer
12 shaft is engaged with the rotatable second member for rotation therewith.

1 2. (Original) The mounting assembly of claim 1, wherein the housing includes an
2 elongate bracket having one end for mounting on the first member, and an opposite end
3 for mounting the sensor thereon in the fixed position and orientation and including a hole
4 therethrough for holding the second end of the transfer shaft in position for engagement
5 with the rotatable second member.

1 3. (Currently Amended) The mounting assembly of claim 1, wherein the ends of the
2 transfer shaft include blades cooperatively receivable in slots in the sensor element and

3 the rotatable second member, respectively, and extending transversely to an axis of
4 rotation of the second member.

1 4. (Original) The mounting assembly of claim 1, wherein the first member
2 comprises a frame member on a front end of an agricultural combine, and the second
3 member comprises a pivot pin fixedly mounted on a feeder for supporting the feeder for
4 rotation on the frame member.

1 5. (Currently Amended) A mounting assembly for a rotational position sensor for
2 mounting on a frame member of an agricultural combine and sensing a rotational position
3 of a feeder supported on the combine for rotational movement relative thereto,
4 comprising:

5 a transfer shaft having a first end cooperatively engageable with a rotatable
6 element of the position sensor and an opposite second end cooperatively, coaxially
7 engageable with a pivot pin on the feeder through which an axis of rotation of the feeder
8 extends, such that rotation of the feeder and the pin about the axis will rotate the transfer
9 shaft;

10 a housing for holding the transfer shaft with the first end in engagement with the
11 rotatable element of the sensor for rotation therewith; and

12 a mounting bracket having a mounting end for mounting on the frame member
13 such that an opposite end of the bracket will be positioned in a predetermined position in
14 closely spaced relation to the pivot pin of the feeder, the opposite end including a hole
15 therethrough aligned with the axis of rotation when in the predetermined position, and
16 being adapted for holding the second end of the transfer shaft in position for engagement
17 with the pivot pin and supporting the housing and the sensor in axial alignment therewith.

1 6. (Currently Amended) The mounting assembly of claim 5, wherein the ends of the
2 transfer shaft include blades cooperatively receivable in slots in the rotatable element of
3 the sensor and the rotatable second member, respectively, and extending transversely to
4 an axis of rotation of the second member.

1 7. (Original) The mounting assembly of claim 5, wherein the second end of the
2 transfer shaft is smaller in transverse extent compared to the first end and the hole in the
3 end of the mounting bracket has a large enough transverse extent so as to allow passage
4 of the second end of the transfer shaft therethrough but not the first end.

1 8. (Currently Amended) A rotational position sensor assembly for mounting on a
2 frame member of an agricultural combine and sensing a rotational position of a feeder
3 supported on the combine for rotational movement relative thereto, comprising:
4 a sensor including a rotatable element and circuitry for outputting a signal
5 indicative of a rotational position of the rotatable element;
6 a transfer shaft having a first end portion including an element cooperatively
7 engageable with the rotatable element of the sensor for rotation therewith and an opposite
8 second end portion including an element cooperatively engageable with a pivot pin on the
9 feeder through which an axis of rotation of the feeder extends, such that rotation of the
10 feeder and the pin about the axis will rotate the transfer shaft and the rotatable element of
11 the sensor; and
12 a housing for receiving the transfer shaft with the element of the first end portion
13 thereof in engagement with the rotatable element of the sensor for rotation therewith,
14 including a bracket having a mounting end for mounting on the frame member such that
15 an opposite end of the bracket will be positioned in a predetermined position in closely

16 spaced relation to the pivot pin of the feeder, the opposite end including a hole
17 therethrough that will be at least generally aligned with the axis of rotation when in the
18 predetermined position and being adapted for holding the second end portion of the
19 transfer shaft in position for cooperative engagement of the element thereof with the
20 pivot pin and supporting the housing and the sensor at least generally in axial alignment
21 therewith.

1 9. (Currently Amended) The rotational position sensor of claim 8, wherein the end
2 portions of the transfer shaft include blades cooperatively receivable in slots in the
3 rotatable element of the sensor and the rotatable second member, respectively, and
4 extending transversely to an axis of rotation of the pivot pin.

1 10. (New) A mounting assembly for a rotational position sensor for mounting on a
2 first member and sensing a rotational position of a second member supported on the first
3 member for rotation relative thereto, comprising:
4 a transfer shaft having a first end cooperatively engageable with a rotatable sensor
5 element of the sensor for rotating the sensor element when the transfer shaft is rotated,
6 and a second end cooperatively engageable with the second member for rotation of the
7 transfer shaft therewith, wherein the ends of the transfer shaft include blades
8 cooperatively receivable in slots in the sensor element and the rotatable second member,
9 respectively, and extending transversely to an axis of rotation of the second member; and
10 a housing for supporting and holding the sensor and the transfer shaft with the
11 first end of the shaft in engagement with the rotatable sensor element and the second end
12 positioned for engaging the rotatable second member, the housing being mountable in a

13 fixed position and orientation on the first member such that the second end of the transfer
14 shaft is engaged with the rotatable second member for rotation therewith.

1 11. (New) A mounting assembly for a rotational position sensor for mounting on a
2 frame member of an agricultural combine and sensing a rotational position of a feeder
3 supported on the combine for rotational movement relative thereto, comprising:
4 a transfer shaft having a first end cooperatively engageable with a rotatable
5 element of the position sensor and an opposite second end cooperatively engageable with,
6 and non-rigidly attached to, a pivot pin on the feeder through which an axis of rotation of
7 the feeder extends, such that rotation of the feeder and the pin about the axis will rotate
8 the transfer shaft;

9 a housing for holding the transfer shaft with the first end in engagement with the
10 rotatable element of the sensor for rotation therewith; and

11 a mounting bracket having a mounting end for mounting on the frame member
12 such that an opposite end of the bracket will be positioned in a predetermined position in
13 closely spaced relation to the pivot pin of the feeder, the opposite end including a hole
14 therethrough aligned with the axis of rotation when in the predetermined position, being
15 adapted for holding the second end of the transfer shaft in position for engagement with
16 the pivot pin and supporting the housing and the sensor in axial alignment therewith.

1 12. (New) A mounting assembly for a rotational position sensor for mounting on a
2 frame member of an agricultural combine and sensing a rotational position of a feeder
3 supported on the combine for rotational movement relative thereto, comprising:
4 a transfer shaft having a first end cooperatively engageable with a rotatable
5 element of the position sensor and an opposite second end cooperatively engageable with

6 a pivot pin on the feeder through which an axis of rotation of the feeder extends, such that
7 rotation of the feeder and the pin about the axis will rotate the transfer shaft, wherein the
8 ends of the transfer shaft include blades cooperatively receivable in slots in the rotatable
9 element of the sensor and the rotatable second member, respectively, and extending
10 transversely to an axis of rotation of the second member;

11 a housing for holding the transfer shaft with the first end in engagement with the
12 rotatable element of the sensor for rotation therewith; and

13 a mounting bracket having a mounting end for mounting on the frame member
14 such that an opposite end of the bracket will be positioned in a predetermined position in
15 closely spaced relation to the pivot pin of the feeder, the opposite end including a hole
16 therethrough aligned with the axis of rotation when in the predetermined position, being
17 adapted for holding the second end of the transfer shaft in position for engagement with
18 the pivot pin and supporting the housing and the sensor in axial alignment therewith.

1 13. (New) A mounting assembly for a rotational position sensor for mounting on a
2 frame member of an agricultural combine and sensing a rotational position of a feeder
3 supported on the combine for rotational movement relative thereto, comprising:

4 a transfer shaft having a first end cooperatively engageable with a rotatable
5 element of the position sensor and an opposite second end cooperatively engageable with
6 a pivot pin on the feeder through which an axis of rotation of the feeder extends, such that
7 rotation of the feeder and the pin about the axis will rotate the transfer shaft, wherein the
8 second end of the transfer shaft is smaller in transverse extent compared to the first end
9 and the hole in the end of the mounting bracket has a large enough transverse extent so as
10 to allow passage of the second end of the transfer shaft therethrough but not the first end;

11 a housing for holding the transfer shaft with the first end in engagement with the
12 rotatable element of the sensor for rotation therewith; and
13 a mounting bracket having a mounting end for mounting on the frame member
14 such that an opposite end of the bracket will be positioned in a predetermined position in
15 closely spaced relation to the pivot pin of the feeder, the opposite end including a hole
16 therethrough aligned with the axis of rotation when in the predetermined position, being
17 adapted for holding the second end of the transfer shaft in position for engagement with
18 the pivot pin and supporting the housing and the sensor in axial alignment therewith.